

IN THE SPECIFICATION:

Please amend the specification as follows:

Page 6, on line 9:

FIG. 2 is a block diagram illustrating the structure of a first embodiment of a duo-binary optical transmission apparatus according to the present invention. In FIG. 2, a duo-binary precoder 100, driving amplifiers 201 and 202, a Mach-Zehnder interference type light intensity modulator 300, and a laser light source 400 for outputting a carrier are provided. In the present embodiment, a structure of a duo-binary optical transmission apparatus including a Z-cut structured chirp-free Mach-Zehnder light intensity modulator is illustrated. In this case, a pair of driving amplifiers 201 and 202 for applying 3-level signals on both sides of dual arms 301 and 302 of a modulator are included.

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FIG. 5 is a block diagram illustrating the structure of a second embodiment of the duo-binary optical transmission apparatus according to the present invention. As shown, an X-cut structured chirp-free Mach-Zehnder interference type light intensity modulator 300 is included. In the duo-binary optical transmission apparatus having the Z-cut structured chirp-free Mach-Zehnder interference type light intensity modulator, a pair of driving amplifiers 201 and 202 are included so that 3-level signals can be applied by both dual arms 301 and 302 of the modulator. However, in the second embodiment, a single arm is included and a single driving amplifier 200 is included so as to apply a 3-level signal to a direction.